MARCH 10, 1938 NUMBER 329

THE UNIVERSITY OF NORTH CAROLINA RECORD

THE ONE HUNDRED AND FORTY-FOURTH SESSION

CATALOGUE OF THE SCHOOL *of* PHARMACY 1937-1938

Announcements for the Session 1938-1939

THE UNIVERSITY OF NORTH CAROLINA PRESS
ISSUED 12 TIMES A YEAR AS FOLLOWS: 4 NUMBERS IN FEBRUARY, 3 NUMBERS IN MARCH, 3 NUMBERS IN APRIL, 1 NUMBER EACH IN JUNE AND OCTOBER.
ENTERED AS SECOND-CLASS MATTER AT THE POSTOFFICE AT
CHAPEL HILL, N. C.
UNDER THE ACT OF AUGUST 24, 1912

CATALOGUE OF EVENTS

Session, 1938-1939

1938

June 5-7	*Sunday through Tuesday.* Commencement Exercises.
June 13-July 23	Summer Session. First Term.
July 25-August 31	Summer Session. Second Term.
September 12-15	*Monday through Thursday.* Freshman Week and Registration of First Year Students.
September 12	*Monday.* Entrance Examinations.
September 12-13	*Monday and Tuesday.* Examinations to remove condition grades.
September 14	*Wednesday.* Registration of First Year and Transferring Students for the fall quarter.
September 15	*Thursday.* Registration (all except First Year and Transferring Students) for the fall quarter.
September 16	*Friday.* Class work for the fall quarter begins.
October 12	*Wednesday.* University Day.
November 23	*Wednesday.* Thanksgiving Recess begins (1:00 p.m.).
November 28	*Monday.* Thanksgiving Recess ends (8:30 a.m.).
December 8-17	*Thursday to 1:00 p.m. Saturday of following week.* Registration for winter quarter.
December 13-17	*Tuesday through Saturday (1:00 p.m.)* Examinations for the fall quarter.
December 17 (afternoon)-January 1, 1939	Christmas Recess.

1939

January 2	*Monday.* Registration of new students.
January 3	*Tuesday.* Class work for the winter quarter begins.
March 3-11	*Friday to 1:00 p.m. Saturday of following week.* Registration for the spring quarter.
March 7-11	*Tuesday through Saturday (1:00 p.m.).* Examinations for the winter quarter.
March 12-19	*Sunday through Sunday.* Spring Recess.
March 20	*Monday.* Registration of new students.
March 21	*Tuesday.* Class work for the spring quarter begins.
May 29-June 2	*Monday through Friday.* Examinations for the spring quarter.
June 4-6	*Sunday through Tuesday.* Commencement Exercises.

INFORMATION PERTAINING TO THE GENERAL UNIVERSITY

The School of Pharmacy is one of the divisions of the University of North Carolina, located at Chapel Hill. It is governed by the same administration, the same board of trustees, the same laws and regulations as the rest of the University. Its students enjoy all of the privileges of the institution and are subject to all general regulations.

Candidates for admission are received by certificate from accredited schools or by examination. Each application for admission must be passed upon and approved by the Dean of Admissions of the University before the application can be considered.

STUDENT GOVERNMENT

The student body of the University is self-governing. The functions of this government are both disciplinary and constructive. The functions are exercised by the Student Council which is elected by the student body. The School of Pharmacy is represented on this council by a member of the fourth-year class. Student government, in so far as it is disciplinary, is based upon the honor principle. No code of rules is laid down to direct a student what to do and what not to do. The only standards are those of morality and gentlemanly conduct, and obedience to the laws of North Carolina. The Student Council has power to suspend or dismiss a student from the University, but the final and supreme power is in the general university faculty, delegated to it by the Board of Trustees.

RELIGIOUS INFLUENCES

Through the coöperation of all concerned, religious influences of unusually effective character surround the University student. Chapel exercises are held in Memorial Hall at ten-thirty o'clock. The Young Men's Christian Association, to which the University makes annual contributions, is of great value in the life of the campus.

The larger denominations of the State have erected in Chapel Hill modern and adequate church plants. The Chapel Hill churches are manned by an effective and coöperative group of pastors, are all located in close proximity to the campus, and play a very large and genuine part in the life of the University.

HEALTH

The health of the student community is cared for by the maintenance of a properly appointed infirmary with a staff of well trained physicians and nurses.

A thorough physical examination is given to students at the time of entrance. All students are classified on the basis of the examination and effort is made to adapt the program to the individual's particular needs. Particular attention is given to various remediable defects and individual programs are built with the idea of improving or correcting the existing condition.

At the discretion of the University Physician a student may be admitted to the wards of the Infirmary, and for such services as may be rendered by the staff no charges are made. But should any additional service (consultation, special nurses, operations requiring the attendance of a trained surgeon), recommended by the attending physician and approved by the parent or guardian, be necessary, the student will be required to pay for such service.

RECREATION

A well rounded seasonal program of intra-mural athletics is carried on throughout the year with the idea of supplying recreational opportunity to all members of the student body. Complete schedules are played in a variety of individual and team activities, including tennis, golf, fencing, table tennis, bowling, boxing, wrestling, track and field, quoits, tag-football, indoor and outdoor baseball, basketball, and soccer. The university gymnasium and five large athletic fields provide ample facilities for exercise and recreation, all under the supervision and direction of a well organized Department of Physical Education.

LIBRARIES

In addition to the specialized departmental and school libraries the general university library, containing over 350,000 volumes, offers its opportunities to members of all divisions of the institution.

LOCATION

Chapel Hill is thirty miles west of Raleigh, the capital of the State, in the beautiful Piedmont section of hills and forests. It can be reached from every point by paved roads, or by train to Durham or Raleigh, thence by bus to Chapel Hill. Its environment of natural beauty and simple culture, of age and traditions, is impressive. The University of North Carolina, the first state university to open its doors in America and a member of the Association of American Universities, is recognized as a leader among educational institutions.

THE SCHOOL OF PHARMACY

FRANK PORTER GRAHAM, M.A., LL.D., D.C.L., D.Litt., *President*
ROBERT BURTON HOUSE, A.M., *Dean of Administration*
JOHN GROVER BEARD, Ph.G., Ph.M., *Dean*

*THE ADMINISTRATIVE BOARD

WILLIAM DEBERNIERE MACNIDER, M.D., Sc.D., LL.D.
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HENRY MATTHEW BURLAGE, Ph.D.
MARION LEE JACOBS, Ph.D.
RALPH WALTON BOST, Ph.D.
IRA WINFIELD ROSE, Ph.G.

SPECIAL STAFF

WILLIAM DEBERNIERE MACNIDER, M.D., Sc.D., LL.D., *Kenan Research Professor of Pharmacology and Dean of the School of Medicine*
DUDLEY DEWITT CARROLL, M.A., *Professor of Economics and Dean of the School of Commerce*
JOHN GROVER BEARD, Ph.G., Ph.M., *Professor of Materia Medica and Dean of the School of Pharmacy*
ROBERT ERVIN COKER, Ph.D., *Professor of Zoölogy*
ALLAN WILSON HOBBS, Ph.D., *Professor of Applied Mathematics and Dean of the College of Arts and Sciences*
HENRY ROLAND TOTTEN, Ph.D., *Professor of Botany*
KARL HARTLEY FUSSLER, Ph.D., *Professor of Physics*
JAMES TALMADGE DOBBINS, Ph.D., *Professor of Chemistry*
HENRY MATTHEW BURLAGE, Ph.D., *Professor of Pharmacy*
EDWARD TANKARD BROWNE, Ph.D., *Professor of Mathematics*
ARTHUR PALMER HUDSON, Ph.D., *Professor of English*
MARION LEE JACOBS, Ph.D., *Professor of Pharmaceutical Chemistry*
RALPH WALTON BOST, Ph.D., *Professor of Chemistry*
ALMONTE CHARLES HOWELL, Ph.D., *Professor of English*
IRA WINFIELD ROSE, Ph.G., *Associate Professor of Practical Pharmacy*
GRANT LESTER DONNELLY, A.B. in Educ., M.D., *Associate Professor of Pharmacology*
WILLIAM LEON WILEY, Ph.D., *Associate Professor of French*
EDWIN CARLYLE MARKHAM, Ph.D., *Associate Professor of Chemistry*
REX SHELTON WINSLOW, Ph.D., *Assistant Professor of Economics*
SHERMAN EVERETT SMITH, Ph.D., *Assistant Professor of Chemistry*
FREDERICK EDWARD COENEN, Ph.D., *Assistant Professor of German*
WILLIAM REESE LLOYD, A.B., B.S. (Phar.), *Graduate Assistant in Pharmacy*

* The Dean of Administration, the Registrar, and the Dean of Students are ex officio members of each Administrative Board.

HISTORICAL SKETCH

In 1880 Dr. Thomas W. Harris was instrumental in establishing a School of Pharmacy at the University in connection with the School of Medicine. Doctor Harris was Professor of Anatomy, Materia Medica, and Pharmacy. The course in pharmacy extended over two sessions of five months each, and led to the degree of Graduate in Pharmacy (Ph.G.). The school was continued until the resignation of Doctor Harris in 1886, when it was abandoned. In the fall of 1890 the school was revived by Dr. Richard H. Whitehead, but again its career was cut short. Finally, in March, 1897, in response to an urgent request previously presented by the North Carolina Pharmaceutical Association, the present school was established upon a firm foundation and Edward Vernon Howell was appointed Professor of Pharmacy and Dean. The course of studies extended over two sessions of nine months each and led to the degree of Graduate in Pharmacy (Ph.G.).

The School has gradually increased its staff and its laboratory and library facilities; it has advanced its minimum degree offerings from two to three and in 1932 to four years of study; and obtained the exclusive use of its present building (Howell Hall of Pharmacy) in 1925. The building contains 35 rooms, 22,000 sq. ft. of floor space, and contains also a departmental library and reading room, an auditorium, and a modern dispensing laboratory. The latter was provided in 1935 as a gift from an alumnus. Howell Hall is located in the northeast section of the campus, adjacent to the Arboretum, the Medicinal Plant Gardens, and the Biology building (Davie Hall).

The School was admitted to membership in the American Association of Colleges of Pharmacy in 1917. This organization was formed for the promotion of thorough scientific work in the profession of pharmacy. It maintains high standards for membership based on the number and training of the faculty, thoroughness of work offered, the quality of the curriculum, the number of students, the financial support of the school, and the facilities for carrying on the work.

The University of the State of New York credits fully the four years of work here as evidence of due preparation for the examinations of the licensing board of that State. The same sort of credit is now extended by all other state examining boards.

The School of Pharmacy urges superior students who are desirous of securing the benefits of thorough specialized training and intensive research work to pursue an additional year in the Graduate School where a course of training leading to the degree of Master of Science (S.M. in Phar.) is offered. The three majors

available are Materia Medica and Pharmacognosy, Pharmaceutical Chemistry, and Pharmacy.

REQUIREMENTS FOR ADMISSION

Properly qualified applicants of either sex may be admitted to the School of Pharmacy, provided they meet the requirements for entrance. Their credentials are first submitted to the Associate Registrar of the University.

English	4 units	French or German or	
*Social Science	1 unit	Latin	2 units
Algebra	1½ units	Electives to make	
Plane Geometry	1 unit	total of	15 units

EXPENSES

Tuition and Other Fees for Each Quarter

Each student whose *bona fide* residence has not been established in North Carolina for at least the six months prior to his first registration in the University must pay an extra fee of $33.34 for each fall, winter, or spring quarter he spends in residence. The residence of a minor is that of his parents or guardian. The residence of an adult remains with his parents or guardian unless he shall have independently set up his own.

Students in doubt about their residence status should appeal their cases in writing to the Dean of Administration, preferably in advance of registration.

	Residents of N. C.
Tuition	$28.34
*Matriculation	20.00
**Student Publications	2.30
Laundry Deposit	8.50
Student Union fee	1.00
Special Entertainment fee	1.50
Total for each quarter	$61.64

DELAYED REGISTRATION: The penalty for delayed registration for any quarter is one month of strict attendance probation for each day of delay. Any student registering later than the time appointed for his registration must pay five dollars ($5.00) as an additional fee for his delayed registration. No appeal from either attendance probation or the late registration charge of five

* Preferably the History of the United States.

* This fee includes fee for physical education, the library fee, the fee for infirmary service, the fee for debates, the fee for registration costs, and membership fee in the Athletic Association.

** This fee includes the following items: Daily Tar Heel $1.28, Yackety Yack .54, Buccaneer .28, and Carolina Magazine .25.

dollars will be granted, unless the delay is due to circumstances clearly beyond the student's control. Such an appeal must be made in writing to the Dean of Administration, must show clearly good and sufficient justification for the delay in registering, and must bear the approval of the Dean of the School of Pharmacy.

LAUNDRY DEPOSIT: Students will be required to send their washing to the University Laundry for which a deposit of $8.50 will be collected at the time of registration.

LABORATORY FEE: Each student taking a laboratory course must pay, in addition to his tuition fee, a small fee for power or materials used in the laboratory. Please bear in mind that laboratory fees are levied upon each student according to the courses pursued. The fees for the various laboratory courses are shown in connection with the description of courses.

GRADUATION FEE. The graduation fee is $5.00 payable when application for the degree is made.

PAYMENT OF BILLS

Bills for the fall quarter are payable at the time of registration. Bills for the winter and spring quarters are payable at the Business Office on the first class day of the quarter. Failure to pay or to make proper arrangements for payment results in the assessment of an extra fee of $5.00.

BOARD

The University Dining Hall Cafeteria, operated on a non-profit basis, is of the latest type and is so equipped that meals of a wide variety are served rapidly. Coupon books may be purchased for $5.00. Three well-balanced meals daily may be obtained at a cost ranging between $18.00 and $25.00 a month.

Board in the village ranges from $20.00 to $30.00 a month.

DORMITORY ACCOMMODATIONS FOR MEN

Accommodations for approximately fourteen hundred students are available in the University dormitories.

All rooms in the dormitories are completely furnished. Students will, however, provide their own pillows, bed linen (for single beds), blankets, and towels.

Room rent ranges from $5.50 to $15.00 a month for each occupant, the price depending upon the location of the room. This charge includes light, heat, and service. Rooms are leased for the scholastic year. The rooms in the University dormitories are assigned to students in the order of application.

The University reserves the right to require any student whom for any reason it considers an undesirable tenant to vacate a room in a University dormitory.

New students should apply to the Cashier of the University for a dormitory room and enclose with the application a deposit fee of $6.00.

In order to retain his room for the next scholastic year, a student must file with the Cashier before May 25 an application and a deposit of $6.00 as an option. Double rooms must be applied for by both intending occupants. The rooms thus applied for will be retained until September 1, when the first payment of rent is due. The $6.00 option deposit will be forfeited in case the applicant does not himself occupy the room and pay the rent. Rooms not applied for or made vacant by failure to pay at the proper date will be assigned in the order of application.

The right to occupy a room is not transferable and terminates with the expiration of the lease. Any attempt on the part of an occupant of a room to sell or transfer his right to occupancy shall be deemed a fraudulent transaction. The penalty for violating this rule shall be the forfeiture of the room by the new lessee.

The occupant of a room will be held directly responsible for any damage done to the furniture in his room or to the room.

No dogs shall be kept in the University dormitories. Breach of this regulation leads to forfeiture of the room.

DORMITORY ACCOMMODATIONS FOR WOMEN

The Cornelia Phillips Spencer Building, the New Woman's Building, and Archer House are the residence halls for women. Spencer Hall and Archer House are reserved for undergraduates. The New Womans Building may be occupied by both undergraduates and graduates. Women students not living in their own homes are required to reside in a dormitory unless permission to live elsewhere is granted by the Adviser to Women. Ordinarily such permission is granted in exceptional cases only.

Rooms are rented upon the basis of the entire scholastic year of three quarters. Payment is made in three instalments which are due September first, January first, and March fifteenth. The amount of each instalment is determined by the annual rental price of the room and the length of each quarter. The room deposit of six dollars is not credited on the fall quarter instalment, but is credited on the winter and spring quarter instalments. Application for a room should be made to the Adviser to Women, and should be accompanied by a deposit of six dollars.

Residents of Spencer Hall are required to board there. Residents of the New Womans Building are given preference for

vacancies in Spencer Hall dining room, but are privileged to board at any of the available boarding places.

All rooms are completely furnished. Students are required to provide, however, pillows, bed linen (for single beds), blankets, and towels.

The cost of room and board and details concerning payments may be found in the Handbook for Women Students or by correspondence with Mrs. M. H. Stacy, Adviser to Women.

APPLICATIONS FOR LOANS

Applications for loans should be made to the Student Loan Fund office as far in advance as possible. The funds are limited in amount and are loaned only on the security of two approved signatures and at the legal rate of interest.

SELF HELP

Every effort is made to provide needy students with various forms of work. To secure such positions the applicant should make every effort to present his case before May 15 to the University Self Help Bureau.

REGISTRATION

Students who expect to register for the first year class should be in Chapel Hill on September 12 and at once present themselves to the Dean of the School of Pharmacy in Howell Hall. The time between this date and formal registration is devoted to placement tests and to a systematic plan of getting new students thoroughly familiarized with their surroundings. All students begin their registration in Howell Hall.

Registration for credit for any course is limited to the first seven calendar days of a quarter, unless the late registration is approved by the instructor concerned, the Dean, and the special faculty of the School of Pharmacy.

ATTENDANCE

Regular class attendance is a student obligation; an unexcused absence is not recognized as a privilege. Absence from class for cause may be excused. Such absences are classified as (a) *those due to participation in recognized University activities, as those of the Glee Club, Debating and Athletic teams, and the Playmakers, when occurring away from Chapel Hill, such excuses to be issued by the Recorder in Room 207, South Building; (b) those

* Such authorized leaves of absence must be secured in advance.

due to actual illness, testified to within forty-eight hours by the physician who personally attended the student during such illness; and (c) those due to emergencies caused by extraordinary circumstances, when *excused by the Dean in advance.*

The maximum number of unexcused absences during any quarter shall not exceed the number of weekly meetings of the class, provided that a department may impose penalties for a smaller number. Any student who has incurred the maximum number of unexcused absences shall be placed on attendance probation, and in case of an additional unexcused absence from *any* class may be suspended from the University by the Dean. Before the decision is reached regarding the suspension the Dean shall confer with either or both the instructor and the head of the department in which the student has taken the maximum number of absences.

Absences immediately before or immediately after University holidays shall count as the maximum number described in the foregoing paragraph.

Any student who, without excuse, is absent from a quiz or examination at the appointed time thereof will not be permitted to make up this quiz or examination.

The grade of a student who quits a course without the permission of the Dean of the School is recorded officially as F.

The grade of a student who drops a course in which he is failing at that time shall be recorded as F, unless, in the judgment of the Dean, the reason for his failure be circumstances clearly beyond his control.

The Dean is expected to use his best judgment in the matter of allowing a student to remain in residence after having been dropped, or without permission has dropped, from one or more courses.

No student is allowed to absent himself from the University without written permission as provided above. This permission may, at the discretion of the executive officer, be granted only upon the formal request of the parent or guardian.

No student shall be given credit in the University for any course who has attended less than 75 per cent of the class meetings of such course during the quarter in which the course is offered.

EXAMINATIONS

Regular written examinations are required at the end of each quarter in all courses except those the nature of which is such as to make them unnecessary.

Special examinations may be taken by students, who have received the condition grade (E), at the period of the special

examinations in September. Provided he has no conflict with a course regularly taken by him in the quarter such a student may take the examination with the class in the same subject at any regular quarter examination period within a year after he has made the grade E. A fourth year student who makes a grade of E in his last quarter of residence is allowed to take a special examination for removal of the E not earlier than three days after his last examination in that period of examinations. The grade E becomes F if the student fails to pass the reëxamination whether in September or at a regular period.

Under no circumstances may a student stand a special examination to remove a condition grade (E) between the first and the last class days in any quarter unless such examination is requested and approved by the instructor of the course and the Committee on Petitions of the School.

Special examinations for students who have been officially excused from regular examinations on account of sickness or have been absent on account of some necessary cause may be held at suitable times fixed by the Recorder and the instructors concerned. Such examinations must be taken within twelve (12) months of the date of absence.

To be entitled to take a special examination within a quarter, or at the September period, or at a regular quarter examination period, the student is required to file with the Recorder at least one week prior to the examination period a written notice that he desires to take such examination.

Students absent from an examination without an official excuse or present and failing to submit examination papers are reported "absent." This mark is equivalent in every respect to grade F or failure, and is so reckoned in the office of the Recorder.

Each student is required to subscribe his name to the following pledge or its equivalent on every paper: "I hereby certify that during this examination I have neither given nor received aid." The instructor should not report a grade for any student whose examination paper lacks this pledge.

Papers handed in at a special examination by students who have been officially excused from the regular examination will be graded; all others will be marked "passed" or "failed."

STANDING

At the close of each quarter reports of the standing of all students in all of their studies are sent to parents or guardians. The reports are based upon the following system of grading: A—Excellent, B—Good, C—Fair, D—Barely passed, E—conditioned, F—Failed, or I*—Work Incomplete.

* The grade I may be converted into one of the other grades by completing within a period of twelve months such additional assignments as may be required by the instructor in the course. A grade of I not so converted becomes F.

PROMOTIONS

A student must attain a grade of D to pass any course.

The right of appeal to the Committee on Petitions of the School of Pharmacy is allowed in respect to grading provided the appeal is made within three months.

Students of pharmacy, in order to be eligible to continue in the School, must qualify according to the following requirements: A first year student must pass at least five quarter hours in the fall quarter, at least ten quarter hours in the first two quarters, and by the end of the spring quarter at least twenty-five quarter hours, not fewer than five of which must be in the spring quarter. Thirty quarter hours are required if deficiencies are removed by correspondence or Summer Session work. All other students of pharmacy must pass at least ten quarter hours each quarter for three quarters or thirty-five quarter hours if deficiencies are made up as above stated.

Any student who is denied promotion or readmission but who offers evidence of extenuating circumstances is permitted to make a written or personal appeal to the Committee on Petitions. The Committee will meet at 10:30 a.m. on the second day *before* the stated registration day at the opening of each quarter and at 2:00 p.m. on the second day *after* the stated registration day at the opening of each quarter to consider petitions of students who have definite and convincing reasons on which to base a request for promotion or readmission.

In addition to the above regulations the following rule applies to students in pharmacy: No student may be admitted to the third year if any first year subject has not been completed.

WITHDRAWALS

If a student wishes to withdraw at any time other than the end of a quarter, a formal withdrawal, which is prerequisite to honorable dismissal or re-entrance to this institution, must be approved by the Dean to be valid. Such a withdrawal will be approved only after full investigation of the circumstances and after the lapse of twenty-four hours from the time the first application is filed with the Dean. The withdrawal form after approval by the Dean must be filed promptly with the Recorder in room 207 in the South Building.

If a student withdraws after the mid-term and is reported as below passing in two or more courses, that quarter will be counted as a quarter in residence in all computations of his requirements for readmission. If a student withdraws before mid-term, it will be left to the discretion of the Dean as to whether or not that quarter is to be counted as a quarter in residence.

The Dean's verdict will be indicated specifically on the form used for withdrawal.

DESCRIPTION OF CURRICULA

The School of Pharmacy recognizes that its graduates may elect to pursue one or another of several related but definitely different forms of pharmaceutical practice. They may become prescriptionists or owners of retail drug stores; they may decide to enter the field of drug manufacturing; they may wish to establish technical laboratories; they may enter pharmaceutical service in either the military or the naval unit of the Government; they may find a place in the U. S. Public Health Service; or they may prefer to become teachers. Each of these different careers requires a specialized type of training and the School attempts to provide such specialization. Certain subject matter, however, is basically necessary regardless of the form of effort which the student may expect to follow after graduation. The School, therefore, has established a single curriculum for the first three years of study. At the beginning of the fourth year specialization begins through the election of the student of his preferred group of studies taken from one of the curricula designated as A, B, or C.* The contents of each curriculum will be found on page 15. Statements about graduate work will be found on pages 6 and 16.

By action of the Administrative Board of the School of Pharmacy the Dean of the School is authorized to allow substitutions of certain academic subjects for certain prescribed pharmaceutical courses in the cases of rising third year students who in his opinion have made such records as to warrant their acceptance after graduation into standard medical schools.

Curricula Leading to the Degree of Bachelor of Science in Pharmacy

In order to be recommended for the degree of Bachelor of Science in Pharmacy the student must have completed one of the four-year courses of study outlined below. A student who has completed one or more years of accredited work in a recognized school of pharmacy and submits satisfactory evidence of having completed the entrance requirements and courses equivalent to those prescribed in the curriculum required for the degree of S.B. in Pharmacy, may be admitted with advanced standing and proceed for this degree. The minimum requirement of residence for a degree is a period of three quarters within a period of twelve months. A full year's work comprising at least forty-five quarter

* Permission to register for either the B or C curriculum must be secured in advance from the Dean of the School and the Major Professor concerned.

hours must be completed by a transferring student. Beginning Jan. 1, 1938, the American Association of Colleges of Pharmacy requires of its member colleges that students transferring from a non-pharmaceutical college must spend a minimum of three years in a standard college of pharmacy in order to be graduated with the degree of S.B. in Pharmacy.

CURRICULA LEADING TO THE DEGREE OF S. B. IN PHARMACY

The abbreviations D., L., and C., placed at the top of columns are to be interpreted as *didactic*, *laboratory*, and *quarter credit* hours respectively.

First Year

FALL QUARTER	D.	L.	C.
Chemistry 1	3	2	4
English 1	3	–	3
Mathematics 1	3	–	3
Pharmacy 10	5	–	5
	14	2	15

WINTER QUARTER	D.	L.	C.
Chemistry 2	3	2	4
English 2	3	–	3
Mathematics 2	3	–	3
Pharmacy 12	3	4	5
	12	6	15

SPRING QUARTER	D.	L.	C.
Botany 41	4	4	6
Chemistry 3	3	2	4
English 3	3	–	3
Mathematics 3	3	–	3
	13	6	16

Second Year

Chemistry 31	3	6	6
Economics 31	5	–	5
Pharmacy 21	3	4	5
	11	10	16

Pharmacog. 42	1	4	3
Economics 32	5	–	5
Pharmacy 22	3	–	3
Zoölogy 41	4	4	6
	13	8	17

Chemistry 42	3	6	6
Pharmacy 23	3	–	3
Pharmacy 33	3	4	5
Physiology 23	3	–	3
	12	10	17

Third Year

Materia Medica 51	4	2	5
Phar. Chem. 61	3	6	6
Pharmacy 61	3	4	5
	10	12	16

Mat. Medica 52	4	2	5
Phar. Chem. 62	3	6	6
Phar. Chem. 64	2	6	5
	13	6	16

English 51	5	–	5
Mat. Medica 53	5	–	5
Phar. Chem. 63	2	3	3½
Pharmacology 55	3	2	4
	15	5	17½

Fourth Year

Curriculum A

Phar. Chem. 70	1	2	2
Phar. Chem. 71	1	2	2
Pharmacy 90	3	–	3
Pharmacy 91	2	6	5
Elective*	5	–	5
	12	10	17

Pharmacy 88	3	–	3
Pharmacy 92	2	6	5
Pharmacy 96	3	–	3
Elective*	5	–	5
	13	6	16

Pharmacy 93	1	4	3
Pharmacy 97	3	4	5
Elective*	5	–	5
Elective*	5	–	5
	14	8	18

Curriculum B**

Chemistry 163	3	6	6
French or German 14	3	–	3
Pharmacy 91	2	6	5
Physics 21	3	2	4
	11	14	18

French or German 15	3	–	3
Phar. Chem. 172	2	6	5
Pharmacy 88	3	–	3
Pharmacy 92	2	6	5
Physics 22	3	2	4
	13	14	20

French or German 16	3	–	3
Phar. Chem. 173	2	6	5
Physics 23	3	2	4
Elective*	5	–	5
	13	8	17

Curriculum C**

French or German 14	3	–	3
Phar. Chem. 70	1	2	2
Phar. Chem. 71	1	2	2
Pharmacy 90	3	–	3
Pharmacy 91	2	6	5
Physics 21	3	2	4
	13	12	19

French or German 15	3	–	3
Pharmacy 82	2	2	3
Pharmacy 88	3	–	3
Pharmacy 92	2	6	5
Physics 22	3	2	4
	13	10	18

French or German 16	3	–	3
Pharmacy 83	2	2	3
Pharmacy 93	1	4	3
Physics 23	3	2	4
Elective*	5	–	5
	14	8	18

* The Elective must be approved by the Dean.

**Permission to register for either the B or C curriculum must be secured in advance from the Dean of the School and the Major Professor concerned.

Graduate Work in Pharmacy

The degree of Master of Science in Pharmacy will be conferred upon students who have satisfactorily completed approved graduate work extending over not less than one year. This course is administered by the Graduate School and information concerning it may be obtained by addressing the Dean of the Graduate School.

†COURSES OF INSTRUCTION

Materia Medica, Pharmacognosy, and Pharmacology

23. PHYSIOLOGY (3).

A study of the functions of the normal human body and a consideration of how these functions are modified by the action of drugs. Laboratory experiments are conducted by the instructor to demonstrate the more important physiological reactions of the lower animals, frogs, turtles, and cats. *Three hours a week, spring quarter, second year.* Professor Donnelly.

*53. MATERIA MEDICA (3). Prerequisite, Materia Medica 51-52.

This course is to be considered as a continuation of Materia Medica 51-52. In addition to a more comprehensive study of vegetable and chemical drugs, consideration is given to the animal and biological products which are used in therapeutics. Lectures and recitations. Textbook: Gerschenfeld's *Bacteriology and Sanitary Science. Three hours a week, fall quarter, third year.* Professor Beard.

**51-52-53. MATERIA MEDICA (15). Prerequisite, Botany 41, 42.

Crude and refined drugs, both official and non-official, are considered from the standpoint of their nomenclature, origin, history, macroscopic appearance and structure, active principles, chief uses, preparations, and doses. The symptoms and first-aid treatment of poisons of major importance are also studied. These statements apply particularly to Materia Medica 51-52. *Four lecture and two laboratory hours a week, fall and winter quarters, third year. Laboratory fee, $1.50 a quarter.* In Materia Medica 53 the main emphasis is placed upon the source and character of animal and biological drugs. Textbook and references to be assigned. *Lectures and recitations five hours a week, spring quarter, third year.* Professor Beard.

42. PHARMACOGNOSY (3). Prerequisite, Botany 41.

A microscopical study of crude drugs and their adulterants and some study and identification of their powders; the localization and identification of crystals, starches, mucilages, gums, oils, resins, glucosides, alkaloids, etc. *One lecture and four laboratory hours a week, winter quarter, second year. Laboratory fee, $4.00.* Professor Totten; Assistants.

(In 1938 this number included both macroscopical and microscopical study of the crude drugs and carried six quarter hours credit.)

55. PHARMACOLOGY (4). Prerequisite, Materia Medica 51-52, Physiology 23.

This course is concerned with the physiological and therapeutic action of drugs both upon man and upon lower animals. Prior to this work the student has completed Materia Medica 51-52 which is concerned with the study of the physical and chemical properties of drugs, their preparations, dosage, and a brief statement of their effect. This course in Pharmacology is intended to amplify and give in a more detailed fashion an under-

† The numbers in parenthesis following the descriptive titles indicate the credit values of the courses counted in quarter hours.

* Not offered in present form after fall quarter, 1938.

** Not to be offered until 1939-1940.

standing of the way in which the drug acts in normal and in toxic quantities. A consideration of the biological standardization of drugs is also a part of this course. Textbook: Bastedo's *Materia Medica, Pharmacology, and Therapeutics. Three lecture and two laboratory hours a week, spring quarter, third year. Laboratory fee, $5.00.* Professor Donnelly.

142. ADVANCED PHARMACOGNOSY (5). Prerequisite, Botany 41, 42.

Advanced study of vegetable drugs; general methods in micro-analysis of powdered drugs; preparation of materials for study; micro-analysis of *typical drugs and their adulterants and of mixtures. Two lecture or conference hours and six laboratory hours a week, winter quarter. Laboratory fee, $4.00.* Professor Adams.

(This course was offered in 1938 as a three hour course.)

391-392-393. RESEARCH IN MATERIA MEDICA AND PHARMACOGNOSY (15).

These advanced courses for graduate students only consist of laboratory work, conferences with the major professor, and library investigations relating to research. The professor in charge is responsible for the assignment and approval of the subject and character of the thesis. *One lecture and nine laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter.* Professors Beard, Totten.

Pharmaceutical Chemistry

61-62(62-63). ORGANIC PHARMACEUTICAL CHEMISTRY (12). Prerequisite, Chemistry 31.

A consideration of the aliphatic and aromatic series. Stress is placed on the compounds of pharmaceutical importance. *Three lecture and six laboratory hours a week, fall and winter quarters. Laboratory fee, $10.00 a quarter, third year.* Professor Jacobs; Assistant.

63(65). ORGANIC PHARMACEUTICAL CHEMISTRY (3½). Prerequisite, Pharmaceutical Chemistry 61-62, or equivalent.

A study of the more important medicinal plant products and synthetic drugs. The laboratory work will consist of the isolation, purification, and identification of medicinal plant constituents and also of the identification of the common synthetic drugs. *Two lecture and three laboratory hours a week, spring quarter, third year. Laboratory fee, $5.00.* Professor Jacobs; Assistant.

64. INORGANIC PHARMACEUTICAL CHEMISTRY (5). Prerequisite, Chemistry 42.

A laboratory and lecture course designed to acquaint the student with the identification tests and general assays of the *United States Pharmacopoeia* and *National Formulary.* Textbook: Jenkins and DuMez: *Quantitative Pharmaceutical Chemistry. Two lecture and six laboratory hours a week, winter quarter, third year. Laboratory fee, $5.00.* Professor Jacobs; Assistant.

70. URINALYSIS (2). Prerequisite, Chemistry 42.

This course is designed to acquaint the student with the qualitative and the quantitative analysis of urine. Reference: Hawk and Bergeim: *Physiological Chemistry. One lecture and two laboratory hours a week, fall quarter, fourth year. Laboratory fee, $2.00.* Professor Jacobs; Assistant.

71. TOXICOLOGY (2). Prerequisite, Pharmaceutical Chemistry 61-62, or equivalent.

This course is designed to acquaint the student with the separation and identification of poisons that may be found in foods and animal tissues. Textbook: Autenrieth and Warren: *Detection of Poisons. One lecture and two laboratory hours a week, fall quarter, fourth year. Laboratory fee, $2.50.* Professor Jacobs; Assistant.

172. PHARMACEUTICAL ANALYSIS (5). Prerequisite, Pharmaceutical Chemistry 64.

A laboratory course supplemented by lectures emphasizing the more advanced and special assay methods of the *United States Pharmacopoeia* and *National Formulary. Two lecture and six laboratory hours a week, winter quarter, fourth year. Laboratory fee, $10.00.* Professor Jacobs; Assistant.

173. FOOD AND DRUG ANALYSIS (5). Prerequisite, Pharmaceutical Chemistry 172.

A laboratory and lecture course dealing with the methods employed by government laboratories to control food and drug products. *Two lecture and six laboratory hours a week, spring quarter, fourth year. Laboratory fee, $10.00.* Professor Jacobs; Assistant.

241-242-243. ADVANCED PHARMACEUTICAL CHEMISTRY (15). Prerequisite, Pharmaceutical Chemistry 61-62 or equivalent.

These courses for graduate students only consist of a study of the more complex medicinal plant products and synthetic drugs, with special emphasis on their isolation, purification, identification, preparation, and structure. *Two lecture and six laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter.* Professor Jacobs.

361-362-363. SEMINAR (3).

Required of all graduate students whose major is in Pharmaceutical Chemistry. *One hour a week, fall, winter, and spring quarters.* Members of the Staff.

391-392-393. RESEARCH IN PHARMACEUTICAL CHEMISTRY (15).

Statements regarding Materia Medica 391-392-393 apply to this course. *One lecture and nine laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter.* Professor Jacobs.

Pharmacy

10. PHARMACEUTICAL MATHEMATICS (5).

It is the purpose of this course so to relate arithmetic and other mathematics to pharmacy as to make certain that students can solve correctly the scientific problems encountered in dispensing as well as the merchandising calculations that arise in drug store practice. Textbook: Sturmer's *Pharmaceutical Arithmetic. Five hours a week, fall quarter, first year.* Professor Beard.

12. PHARMACEUTICAL TECHNIQUE (5).

Lectures deal with the working tools, guiding principles, theory and practice of the profession of pharmacy. The laboratory acquaints the student with the fundamental manipulations involved. Textbooks: *United States Pharmacopoeia XI; National Formulary VI. Three lecture and four laboratory hours a week, winter quarter, first year. Laboratory fee, $5.00.* Professor Burlage; Assistants.

21 (13, 23). PHARMACEUTICAL TECHNIQUE AND ELEMENTARY GALENICAL PHARMACY (5).

A continuation of Pharmacy 12 dealing with the more advanced theories and manipulations of pharmacy. Galenicals involving simple solution are studied and prepared. Textbooks: *United States Pharmacopoeia XI; National Formulary VI. Three lecture and four laboratory hours a week, fall quarter, second year. Laboratory fee, $5.00.* Professor Burlage; Assistants.

22 (12). PHARMACEUTICAL LATIN (3).

A certain modicum of Latin is absolutely essential to the understanding of pharmaceutical terminology and to the proper handling of prescriptions.

It is the purpose of this course to provide exactly that modicum. Textbook: Howe and Beard's *Latin for Pharmacists. Three hours a week, winter quarter, second year.* Professor Beard.

23 (95). LITERATURE AND HISTORY OF PHARMACY (3).

A course designed to acquaint the student with the use of a library, and to develop the historical background and ethics of the profession of pharmacy. Reports are required which necessitate the preparation of bibliographies and essays on the important figures and developments of the profession. *Three hours a week, spring quarter, second year.* Professor Burlage.

33 (22). INORGANIC PHARMACY (5). Prerequisites, Chemistry 31, Pharmacy 21.

The official inorganic compounds are studied. The laboratory deals with the more important compounds and preparations involving chemical reactions. Textbooks: *United States Pharmacopoeia XI; National Formulary VI. Three lecture and four laboratory hours a week, spring quarter, second year. Laboratory fee, $7.50.* Professor Burlage; Assistants.

61. ADVANCED GALENICAL PHARMACY (5). Prerequisites, Pharmacy 21, 33.

The official galenicals are considered in the lectures while the laboratory work consists of the preparation of the more important and advanced types. Textbooks: *United States Pharmacopoeia XI; National Formulary VI; Recipe Book II. Three lecture and four laboratory hours a week, fall quarter, third year. Laboratory fee, $10.00.* Professor Burlage; Assistants.

82, 83. MANUFACTURING PHARMACY (3 each). Prerequisite, Pharmacy 61.

The study and manufacture of pharmaceuticals, home remedies, diagnostic agents, insecticides, dentrifices, etc., especially those manufactured on a semi-commercial scale in hospitals. Emphasis is placed on the manipulation of machinery and apparatus used. *Two lecture and two laboratory hours a week, winter and spring quarters, fourth year. Laboratory fee, $7.50 a quarter.* Professor Burlage.

88 (98). NEW AND NON-OFFICIAL REMEDIES (3). Prerequisite, Pharmaceutical Chemistry 63, Pharmacy 61.

A course designed to familiarize the student with the more important organic compounds and their preparations recognized in *New and Non-official Remedies.* Textbook: *New and Non-official Remedies. Three hours a week, winter quarter, fourth year.* Professor Burlage.

90. PARASITICIDES (3).

A course intended to supply information concerning the uses and methods of application of poisonous or inhibitory substances used as insecticides, fungicides, parasiticides, and rodenticides. *Three hours a week, fall quarter, fourth year.* Professor Rose.

91-92. DISPENSING (10). Prerequisite, Pharmacy 61.

A study of the compounding and dispensing of prescriptions, including incompatibilities. Practice also is required in preparing capsules, pills, powders, ointments, etc., until work is satisfactory. *Two lecture and six laboratory hours a week, fall and winter quarters, fourth year. Laboratory fee, $7.50 a quarter.* Professor Rose.

93. DISPENSING (3). Prerequisite, Pharmacy 91-92.

Continuation of Pharmacy 91-92. *One lecture and four laboratory hours a week, spring quarter, fourth year. Laboratory fee, $5.00.* Professor Rose.

96. COMMERCIAL PHARMACY (3).

A practical consideration of retail store management and its problems.

Executive control, organization, lay-out, merchandising, store policy, personnel, and other phases, including pharmaceutical jurisprudence, are dwelt upon. *Three hours a week, winter quarter, fourth year.* Professor Rose.

97. ACCOUNTING PRINCIPLES (5).

A study of the fundamentals of double entry bookkeeping, covering the theory of debit and credit, closing the books, and construction of financial statements. Systems suitable for drug stores will be emphasized. *Three lecture and four laboratory hours a week, spring quarter, fourth year.* Professor Rose.

99. THEORETICAL PHARMACY (5).

A course for fourth year students which is intended to bring together salient subject matter from materia medica, pharmaceutical chemistry, and pharmacy in order that highly important drugs may be studied from every angle. *Lectures and recitations, five hours a week, spring quarter, fourth year.* Professor Beard.

191, 192, 193. CRITICAL STUDIES OF DISPENSING PROBLEMS, OFFICIAL PREPARATIONS, AND THEIR ASSAYS (5 each).

One lecture and eight laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $7.50 a quarter. Members of Staff.

261-262-263. MEDICINAL PLANT PRODUCTS AND THEIR PREPARATIONS (15).

These courses for graduate students only consist of advanced studies of medicinal plant products emphasizing their constitution, formation, isolation, identification, preparations and possible uses in medicines and other items relating to pharmacy. Readings and discussions of recent advances in this branch of pharmacy are held. *Two lecture and six laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter.* Professor Burlage.

351-352-353. SEMINAR (3).

Required of all graduate students whose major is in pharmacy. Reports and discussions relating to recent advances in all branches of pharmacy and related sciences. *One hour a week, fall, winter, and spring quarters.* Members of the Staff.

391-392-393. RESEARCH IN PHARMACY (15).

Statements regarding Materia Medica 391-392-393 apply to this course. *One lecture and nine laboratory hours a week, fall, winter, and spring quarters. Laboratory fee, $10.00 a quarter.* Professor Burlage.

COURSES IN SERVICE DEPARTMENTS

Botany

41. GENERAL BOTANY (6).

An introduction to the structure and classification of plants. Lectures with laboratory and field work. *Four lecture and four laboratory or field trip hours a week, spring quarter, first year. Laboratory fee, $4.00.* Professors Coker, Totten, Couch; Assistants.

Chemistry

1-2-3. GENERAL DESCRIPTIVE CHEMISTRY (12).

An introduction to the study of the principal non-metallic and metallic elements and their compounds. Lectures with laboratory work. *Three lecture and two laboratory hours a week, throughout the first year. Laboratory fee, $3.00 a quarter.* Professors Markham, Smith; Assistants.

31. QUALITATIVE ANALYSIS (6). Prerequisite, Chemistry 1-2-3.

Laboratory work and lectures. *Three lecture and six laboratory hours a week, fall quarter, second year. Laboratory fee, $10.00.* Professors Dobbins, Markham; Assistants.

42. ELEMENTARY QUANTITATIVE ANALYSIS (6). Prerequisite, Chemistry 31.

Volumetric Analysis. Laboratory work, lectures, and stoichiometric exercises. *Three lecture and six laboratory hours a week, spring quarter, second year. Laboratory fee, $10.00.* Professors Dobbins, Markham; Assistants.

163 (166). QUALITATIVE ORGANIC ANALYSIS (6). Prerequisite, Chemistry 61, 62, 63, or equivalent.

A study of the theory of solubility, homology, class reactions, and the functional groups in organic compounds. Individual substances and complex mixtures are studied. *Three lecture and six laboratory hours a week, fall quarter, fourth year. Laboratory fee, $10.00.* Professors Bost and Russell.

Economics

31-32. GENERAL ECONOMICS (10). Not open to First Year students.

This course is planned to give a general understanding of the organization of our economic life and the fundamental principles underlying it. An analysis is made of production, distribution, and consumption, of the elements which determine value and price, with a brief introduction to money, banking and credit, monoply, business combinations, labor problems, and economic reform. *Five hours a week, fall and winter quarters, second year.* Professors Heer, Bernstein, Lear, Cowden, Winslow; Instructors and Assistants.

English

1-2-3. FRESHMAN ENGLISH (9).

English 1 (fall) has for its object practical control of the sentence as a rhetorical unit and an understanding of the relation of sentence structure to paragraph structure. English 2 (winter) centers attention upon the paragraph and begins consideration of the technical problems of the longer theme. English 3 (spring) is devoted to study of the structure and style of the essay, and undertakes an approach toward the problems of literature courses. In all three quarters the student pursues directed reading, writes frequent themes, and has personal conferences with his instructor. *Three hours a week, throughout the first year.* Professors Hudson (Chairman), McClamroch, Adams, Harry Russell, Bailey; Instructors and Assistants.

51. ADVANCED COMPOSITION: Practical Exposition (5).

A course, primarily for students in the Schools of Commerce and Pharmacy, designed to give practice in writing the forms commonly used in the business world: letters, reports, professional papers, and articles for the press. *Five hours a week, spring quarter, third year.* Professor Howell.

French

14-15-16. SPECIAL COURSE FOR ADVANCED STUDENTS (9).

A course for beginners open only to those who desire an introduction to a second foreign language and who give evidence of being especially qualified for such study. *Three hours a week throughout the fourth year.* Professor Wiley.

German

14-15-16. SPECIAL COURSE FOR ADVANCED STUDENTS (9).

A course for beginners open only to those who desire an introduction to a second foreign language and who give evidence of being especially well qualified for such study. *Three hours a week, throughout the fourth year.* Professor Coenen.

Mathematics

1-2-3. INTRODUCTORY MATHEMATICS (9).

A systematic development of the notion of function. First the algebraic functions, including the linear function, the quadratic function, the functions of higher degree, an account of associated equations and geometric loci, the rate of change of a function, functions changing at a given rate. Then transcendental functions, including the logarithmic and exponential functions with their rates of change and associated problems. Finally the trigonometric functions and their application to the solution of triangles. *Three hours a week throughout the first year.* Professors Lasley, Hobbs, Browne, Mackie, Winsor, Linker, Hill, Hoyle, Cameron.

Physics

21-22-23. GENERAL PHYSICS (12). Prerequisite, Mathematics 1-2-3.

Part I. Mechanics of solids, liquids, and gases. Text: Foley: *College Physics. Two lecture, one discussion, and two laboratory hours a week, fall quarter, fourth year. Laboratory fee, $2.75.*

Part II. Electricity and magnetism, heat. Text: see Part I. *Two lecture, one discussion, and two laboratory hours a week, winter quarter, fourth year. Laboratory fee, $2.75.*

Part III. Completion of heat, sound, light. Text: see Part I. *Two lecture, one discussion, and two laboratory hours a week, spring quarter, fourth year. Laboratory fee, $2.75.* Professor Fussler, Dr. Shearin; Assistants.

NOTE: All three parts must be completed in order to secure any credit.

Zoölogy

41. FUNDAMENTALS OF ANIMAL BIOLOGY (6).

Principles of biology; elements of anatomy, physiology, and classification of vertebrate animals. Dissection of frog and dogfish and study of tissues, as necessary for an understanding of the organization and functions of vertebrate animals and especially of man. *Four lecture and four laboratory hours a week, fall or winter quarter, second year. Laboratory fee, $5.00.* Professors Coker, Costello; Assistants.

DRUG STORE EXPERIENCE

The North Carolina Board of Pharmacy requires of candidates for license to practice pharmacy evidence of not less than forty-eight months of practical drug store experience. However, it allows the work done in the pharmaceutical laboratories to count in lieu of drug store experience, such credit to be limited to thirty-six months. Up to this limit the college work counts month for month.

SCHOLARSHIPS

The scholarships listed below, valued at $85.00 each, are awarded only to worthy and needy students of pharmacy who

subscribe to the reasonable requirements laid down by the donors. Application for them must be made to the Dean of the School of Pharmacy on or before July first.

COUNCIL SCHOLARSHIPS. Two in number. Established by Mr. C. T. Council, of Durham.

THE SCOTT DRUG COMPANY SCHOLARSHIP. Established by the Scott Drug Company, of Charlotte.

THE W. H. KING DRUG COMPANY SCHOLARSHIP. Established by the W. H. King Drug Company, of Raleigh.

THE JUSTICE DRUG COMPANY SCHOLARSHIP. Established by the Justice Drug Company, of Greensboro.

THE FAIRCHILD SCHOLARSHIP. Mr. Samuel W. Fairchild, of New York City, offers annually a competitive scholarship amounting to $500.00 in cash to the high school graduates of the United States who wish to follow pharmacy as a vocation. This scholarship will be awarded on the basis of a competitive examination given to candidates who are high school graduates and who have successfully finished at least three years' work in a school or college of pharmacy which is a member of the American Association of Colleges of Pharmacy. Each school, college, or department of pharmacy will be allowed and be limited to two candidates. Application for further information concerning this scholarship should be made to the Dean of the School of Pharmacy.

LOAN FUNDS

THE RHO CHI LOAN FUND. The Xi Chapter of the Rho Chi Honorary Society has established a loan fund for deserving students of pharmacy.

THE LOAN FUND OF THE WOMEN'S AUXILIARY, N. C. PHARMACEUTICAL ASSOCIATION. A fund of $300 was established in 1932 by the above named organization for use by students of pharmacy.

MEDALS AND PRIZES

LEHN AND FINK GOLD MEDAL. This medal is given annually by Lehn and Fink of New York City.

THE BUXTON WILLIAMS HUNTER MEDAL. A gold medal is offered annually by Mr. D. R. Davis, of Williamston, in honor of his uncle, Mr. Buxton Williams Hunter, of New Bern, and is awarded to that student who has shown outstanding qualities of

leadership and scholarship and who has done the most conspicuous work in the Student Branch of the N. C. P. A.

THE F. W. HANCOCK PRIZE. A prize of a gold watch, suitably engraved, is offered annually by Mr. F. W. Hancock, of Oxford, to that member of the graduating class who has achieved the highest scholastic rating during four years of study.

THE A. PH. A. MEMBERSHIP PRIZE. A prize of a year's membership in the American Pharmaceutical Association is offered annually by Prof. H. M. Burlage to that member of the graduating class who has attained the highest scholarship and technical proficiency in the courses dealing with the theory and practice of pharmacy.

N. C. P. A. MEMBERSHIP PRIZE. An unnamed donor offers annually a year's membership in the North Carolina Pharmaceutical Association to that member of the graduating class who has obtained the highest honors in the materia medica sciences.

RHO CHI HONORARY SOCIETY

The Xi Chapter of Rho Chi, national honorary pharmaceutical society, was established at the University of North Carolina in 1929. Charters for chapters of this organization are granted only to groups in colleges that are members in good standing of the American Association of Colleges of Pharmacy. Eligibility for membership in the Society is based on high attainment in scholarship, character, personality, and leadership. All candidates selected for membership must have completed 102.5 quarter hours or the equivalent of college work, and they must be approved by the Dean of the School of Pharmacy.

THE UNIVERSITY OF NORTH CAROLINA STUDENTS' BRANCH OF THE NORTH CAROLINA PHARMACEUTICAL ASSOCIATION

The University of North Carolina Students' Branch of the North Carolina Pharmaceutical Association was established in the spring of 1936. The aim of the organization is to unite the pharmacy students for mutual assistance, encouragement, and improvement, and to advance the science and art of pharmacy.